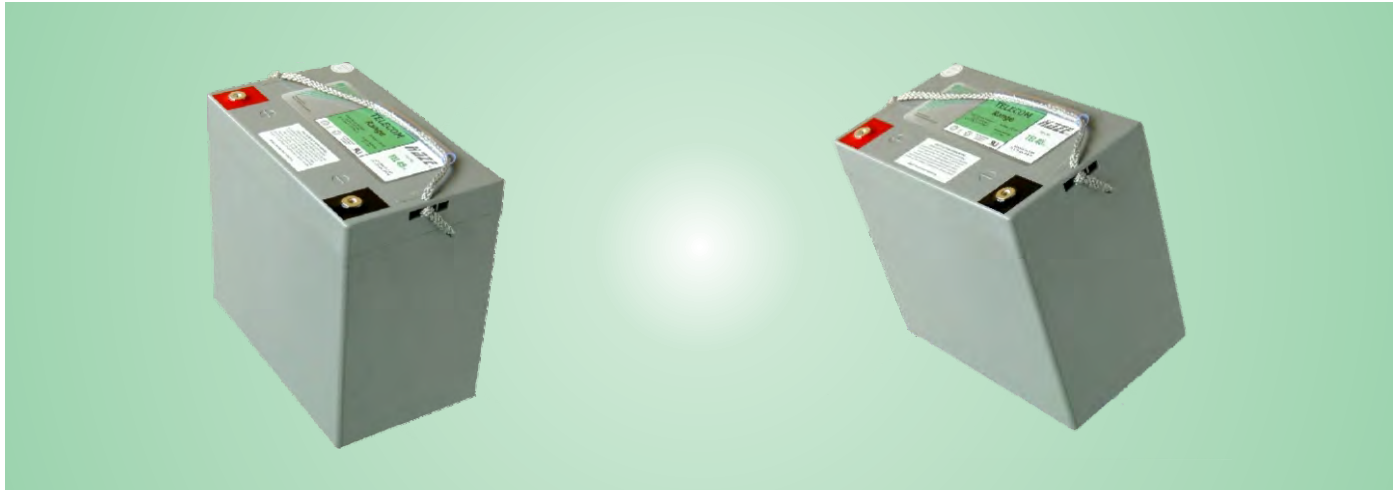


TELECOM RANGE



Haze Battery Company



Model No. TEL 45 (12 Volts, 56.2 Ah at 8 hour Rate to 1.75 vpc)
Valve Regulated Lead Acid Battery for communications
standby power & UPS applications

Innovative Features

- ◆ Completely maintenance free, sealed construction eliminates the need for watering
- ◆ Fully tank formed plates
- ◆ Analytical Grade electrolyte
- ◆ Spill proof / leak proof
- ◆ Valve regulated Max internal pressure 2.5 psi
- ◆ Multi-position usage
- ◆ ABS Case & Cover Flame Retardant meets UL 94 VO requirements
- ◆ Low self discharge
- ◆ FAA and IATA approved as non-hazardous
- ◆ Designed to comply with Bellcore TR-NWT-000766, Bellcore TR-NWT-000909, ANSI T1.330-1997, Telcordia SR 4228, British Standard BS 6290 Part 4, IEC 896 Part 2, Eurobat, DIN 43534
- ◆ UL Recognized, ISO 9001

Ampere Hour Capacity at 77°F (25°C) to 1.75 vpc

Discharge Time in Hrs	1	2	3	4	5	6	7	8	10
Ampere Hour Capacity	39.0	45.1	48.4	50.7	52.8	54.3	55.2	56.2	57.6

Website: www.hazebattery.com/usa
E mail : customerservice@hazebattery.com
Ph: 952-746-7528 Fax: 952-746-7527



AGM Range
Sealed Lead Acid 12 Volt Bloc

Specifications

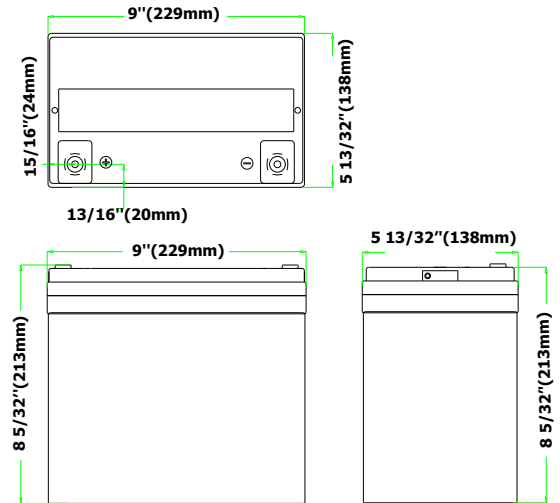
Nominal Voltage		12V	
Nominal Capacity		59.5 Ah	C20
Dimensions	Total Height (Inc terminals)	8.39 inches	213 mm
	Length	9.02 inches	229 mm
	Width	5.43 inches	138 mm
	Weight	38.2 lbs	17.3 Kg



Haze Battery Company Ltd

Characteristics

Capacity 77°F (25°C) to 1.75 vpc	20 hour rate	59.5 Ah
	10 hour rate	57.6 Ah
	5 hour rate	52.8 Ah
	2 hour rate	45.1 Ah
	1 hour rate	39.0 Ah
Internal Resistance		5.8 mOhms
Capacity correction for temperature Variations (C20)	104°F (40°C)	102%
	68°F (20°C)	100%
	32°F (0°C)	85%
	5°F (-15°C)	65%
Self Discharge 77°F (25°C)	Capacity after 1 month storage	98%
	Capacity after 3 months storage	94%
	Capacity after 6 months storage	86%
Short Circuit Current 77°F (25°C)	1700	
Terminal	Standard	14mm Insert M6 thread
Charging (Constant Voltage)	Cyclic	2.35 - 2.40 vpc (59 - 77°F)
	Float	2.27 - 2.30 vpc (59 - 77°F)



End V per Cell	Ampere Hour at 77°F (25°C)											
	1 hr	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	
1.85	34.3	39.7	42.6	44.6	46.5	47.8	48.6	49.4	50.7	51.5	52.4	
1.80	36.7	42.4	45.5	47.7	49.6	51.0	51.9	52.8	54.1	55.0	55.9	
1.75	39.0	45.1	48.4	50.7	52.8	54.3	55.2	56.2	57.6	58.6	59.5	
1.70	39.9	46.1	49.5	51.8	54.0	55.5	56.4	57.4	58.9	59.8	60.8	

End V per Cell	Constant Amps Discharge - Amps at 77°F (25°C)											
	1 hr	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	
1.85	34.30	19.90	14.20	11.20	9.29	7.96	6.94	6.18	5.07	4.29	2.62	
1.80	36.70	21.20	15.20	11.90	9.93	8.51	7.41	6.60	5.41	4.59	2.80	
1.75	39.00	22.60	16.10	12.70	10.60	9.05	7.89	7.02	5.76	4.88	2.98	
1.70	39.90	23.10	16.50	13.00	10.80	9.25	8.06	7.17	5.89	4.99	3.04	

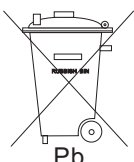
End V per Cell	Constant Power Discharge - Watts/Cell at 77°F (25°C) in Minutes											
	5	10	15	20	25	30	35	40	45	60	90	
1.67	435.0	257.0	195.0	162.0	142.0	127.0	116.0	105.0	97.1	77.4	56.2	

Specifications

Design Life	12 Years
Operating Temperature	-4 °F to 122 °F
Grid alloy	Calcium / Tin lead alloy
Plates	Flat Pasted
Separator	Absorbant Glass Mat
Active material	Very high purity lead
Charge Voltage	Float 2.27 - 2.30 VPC @77 °F Cycling 2.35 @77 °F Max. 2.4 VPC Max ripple 0.05C (A)
Electrolyte	Sulphuric acid Analytical grade purity
Venting Valve	EPDM Rubber 1.5 to 2 psi (10.5 - 14 KPa) release pressure. Resealing at 1 psi (7 KPa)
Torque setting	The recommended torque value for all types is 44-62 inch-pounds

Terminal Details

Insert are made from brass with copper, nickel and silver plating giving excellent mechanical, electrical and corrosion resistant properties.



Haze Battery Company keenly encourages environmental awareness; PLEASE follow guidelines for the recycling /disposal of lead.



UL Recognised
Component
MH 20947



Ver. 11/6/12